

HUTHER BROS. SAW MFG. COMPANY, INC.

ESTABLISHED 1869

Cable Address
"GROOVESAW" Rochester
Iron Age Code on page 8

ROCHESTER, N. Y., U.S.A.

Manufacturers of Saws

Products

INSERTED TOOTH MILLING
SAWS
CIRCULAR WOOD CUTTING
SAWS
GROOVING SAWS (Dado
Heads)

METAL SLITTING SAWS
CIRCULAR MILLING SAWS
METAL CUTTING BAND
SAWS
SPECIAL SAW GRINDING
MACHINES

Also, Special Saws, Wood Cutting Band Saws, Special Knives, Springs, Discs and Sheet Metal Products of similar nature.

Export Facilities

Our extensive plant is equipped with modern machinery for the production of high grade steel saws. All departments are in charge of expert and skilled mechanics who have had long experience in this line of manufacture. The location, in close connection with railway and water communications that lead to the seaboard, facilitates prompt deliveries.

Guarantee

All saws manufactured by us are guaranteed to be as true as it is possible to make them. They are thoroughly tempered and are free from flaws and seams. If any saw be found defective, necessary repairs will be made within thirty days from delivery, or a new saw will be shipped without cost.

Inserted Tooth Milling Saws, Coarse Pitch Type

These saws (Fig. 1) are designed to stand severe strain and shock and are especially recommended for cutting solid metal, 2 1/4 in. (57 mm.) or over, either square or round. For thinness, strength and flexibility, this type is unsurpassed and will increase the output of any cutting-off machine.

THICKNESS—Saws 24 in. (610 mm.) in diameter are 1/4 in. (6 mm.) thick; saws 30 in. (762 mm.) in diameter are 9/32 in. (7 mm.) thick; saws 36 in. (914 mm.) in diameter are 9/32 in. (7 mm.) thick.

INSERTS—Inserted teeth may be worn back to about 1/8 in. (3 mm.) without reducing the diameter of the saw or impairing its cutting ability. When this occurs, they should be replaced with new inserts.

Inserted Tooth Milling Saws, Fine Pitch Type

This style (Fig. 2) is especially adapted for cutting rails, and is used extensively by frog switch and crossing manufacturers. It can also be used to advantage for cutting rounds or flats and structural steel.

Solid Tooth Circular Wood Cutting Saws

The solid tooth type of saw is designed and made for rip and cross cutting. (The solid teeth are shown in Fig. 3.) If saws with special teeth are desired, they will be furnished upon receipt of specifications.

DIAMETERS—1 to 36 in. (25 to 914 mm.) in diameter, the gauge varies from 24 to 5 (.220 to .022 in. or 5.59 to 0.56 mm.) Circular saws are made 42 in. (1067 mm.)

in diameter or larger. Saws of less than 10 gauge (.134 in. or 3.4 mm.) not recommended.

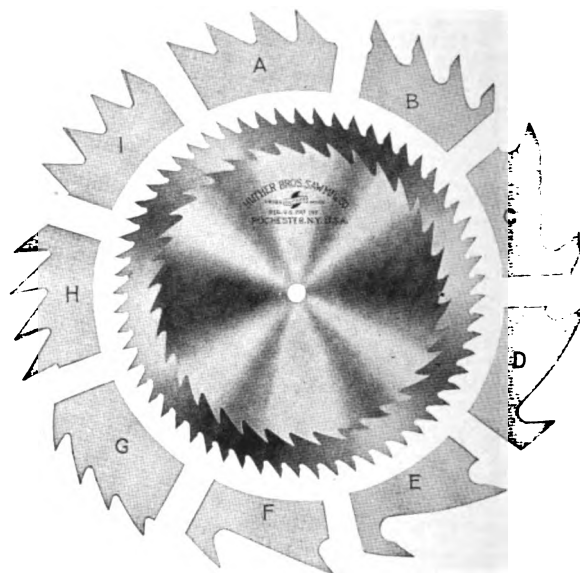


FIG. 3. VARIOUS STYLES OF SOLID TEETH USED IN RIP AND CROSS CUT SAWS

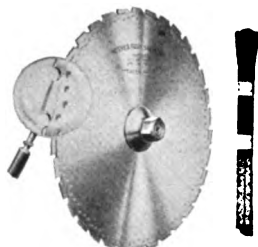


FIG. 1. INSERTED TOOTH MILLING SAW Coarse Pitch Type

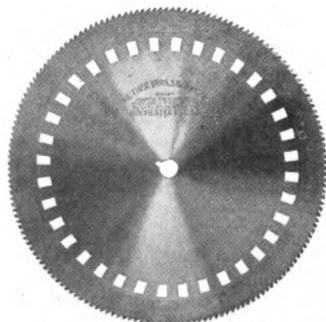


FIG. 2. INSERTED TOOTH MILLING SAW—Fine Pitch Type

Grooving Saw or Dado Head

This is for cutting grooves from 1/8 to 4 in. (3 to 102 mm.). (See Fig. 4.) It consists of two outside saws, each of which is a groover in itself, and as many inside cutters as are desired. The dado head will cut perfect grooves either with or across the grain without leaving rough edges as is the case with ordinary grooving saws. The outside cutters can be used singly, together or in connection with few or many inside cutters.

THICKNESS—The outside cutters are made 1/8 in. (3 mm.) thick. Inside cutters are made 1/8, 1/4 and 1/2 in. (1 1/2, 3 and 6 mm.) thick, so that any width of grooves measurable in sixteenths of an inch (multiples of 1 1/2 mm.) may be cut.

PATENTS—We are the patentees of this type of Dado Head, designed in accordance with the requirements of dado users during our experience of over fifty years.

Full information and prices for high speed metal slitting saws will be sent upon application.

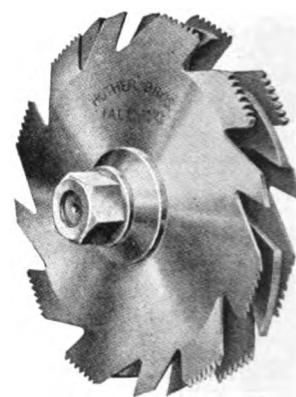


FIG. 4. DADO HEAD Can be used on any circular saw arbor.

TABLE I. GROOVING SAW OR DADO HEAD

Set No.	Cutting Capacity		Code Word	Set No.	Cutting Capacity		Code Word
	in.	mm.			in.	mm.	
B 1	1/8 to 3/8 x 1/8	3 to 10 x 3	MINAC	B 5	1/8 to 1 1/2 x 1/8	3 to 38 x 2	MINUX
B 2	3/8 to 1/2 x 1/8	3 to 16 x 3	MINEB	B 6	1/8 to 2 x 1/8	3 to 51 x 2	MOBAM
B 3	1/2 to 3/4 x 1/8	3 to 19 x 2	MINIF	B 7	1/8 to 3 wide	3 to 76 wide	MOBEV
B 4	3/4 to 1 x 1/8	3 to 25 x 2	MINCH	B 8	1/8 to 4 wide	3 to 102 wide	MOBES

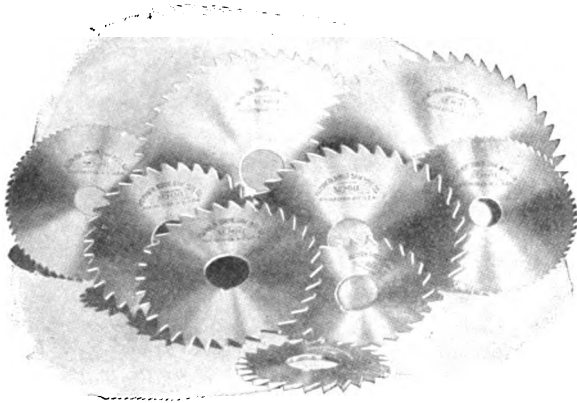


FIG. 5. METAL SLITTING SAWS

TABLE II. METAL SLITTING SAWS

No.	Diam.		Th'kn's.		Hole		Code Word	No.	Diam.		Th'kn's.		Hole		Code Word
	in.	mm.	in.	mm.	in.	mm.			in.	mm.	in.	mm.	in.	mm.	
B 9	2 1/2	64	1/8	3.2	1/8	3.2	NAPAR	B 29	5	127	1/8	3.2	1	25	NUGAR
B 10	2 1/2	64	1/8	3.2	1/8	3.2	NAPEZ	B 30	5	127	1/8	3.2	1	25	NUGEY
B 11	2 1/2	64	1/8	3.2	1/8	3.2	NAPIP	B 31	5	127	1/8	3.2	1 1/4	32	NUGID
B 12	2 1/2	64	1/8	3.2	1/8	3.2	NAPOX	B 32	5	127	1/8	3.2	1 1/2	38	NUGOW
B 13	2 1/2	64	1/8	3.2	1/8	3.2	NAPUG	B 33	5	127	1/8	3.2	1	25	NUGUX
B 14	2 1/2	64	1/8	3.2	1/8	3.2	NAGAB	B 34	5	127	1/8	3.2	1	25	NASAS
B 15	3	76	1/8	3.2	1/8	3.2	NAGES	B 35	6	152	1/8	3.2	1	25	NASEP
B 16	3	76	1/8	3.2	1/8	3.2	NAGIL	B 36	6	152	1/8	3.2	1	25	NASIN
B 17	3	76	1/8	3.2	1/8	3.2	NAGOF	B 37	6	152	1/8	3.2	1	25	NASOB
B 18	3	76	1/8	3.2	1/8	3.2	NAGUM	B 38	6	152	1/8	3.2	1 1/4	32	NASUT
B 19	3	76	1/8	3.2	1/8	3.2	NITAD	B 39	6	152	1/8	3.2	1 1/2	38	NEDAT
B 20	3	76	1/8	3.2	1/8	3.2	NITEX	B 40	6	152	1/8	3.2	1 3/4	45	NEDEM
B 21	4	102	1/8	3.2	1/8	3.2	NITIZ	B 41	6	152	1/8	3.2	1	25	NEDIB
B 22	4	102	1/8	3.2	1/8	3.2	NITOB	B 42	7	178	1/8	3.2	1	25	NEDOL
B 23	4	102	1/8	3.2	1/8	3.2	NITUP	B 43	7	178	1/8	3.2	1	25	NEDUC
B 24	4	102	1/8	3.2	1/8	3.2	NORAH	B 44	7	178	1/8	3.2	1	25	NICAB
B 25	4	102	1/8	3.2	1/8	3.2	NOREC	B 45	7	178	1/8	3.2	1 1/4	32	NICER
B 26	4	102	1/8	3.2	1/8	3.2	NORIT	B 46	7	178	1/8	3.2	1 1/2	38	NICIK
B 27	4	102	1/8	3.2	1/8	3.2	NOROK	B 47	7	178	1/8	3.2	2	51	NICOP
B 28	5	127	1/8	3.2	1/8	3.2	NORUS								

"Semhi" Circular Milling Saws

HUTHER BROS. "SEMHI" SAWS (Fig. 6.)—Are manufactured from a special high grade steel, tempered hard. The teeth are of proper shape, jointed and sharpened ready for use. They will retain a good cutting edge. See description of inserted tooth milling saws.

ADAPTABILITY—For cutting metal at slow speed. These saws can be used on Nutter, Barnes, Newton, Espen-Lucas, Cochrane-Bly and other cutting-off machines.

SIZES—Diameters range from 8 to 32 in. (203 to 813 mm.); thickness 16 to 3 gauge or $\frac{1}{8}$ to $\frac{1}{4}$ in. (1.6 to 6.4 mm.).

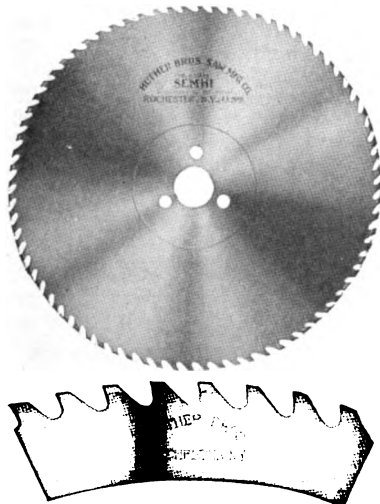


FIG. 6. CIRCULAR MILLING SAWS

WHEN ORDERING—Kindly state material to be cut, diameter and thickness of blade, size of collar, number of teeth in saw, and send sketch of center and pin holes, with dimensions.

SPECIAL SAWS—Saws of special dimensions can be made or quoted upon receipt of specifications.

TABLE III. CIRCULAR MILLING SAWS FOR "COCHRANE-BLY" MACHINES

No.	Diameter		Thickness		Code Word	No.	Diameter		Thickness		Code Word
	in.	mm.	in.	mm.			in.	mm.	in.	mm.	
B 48	12	305	1/8	3.2	MOBOT	B 52	18	457	1/8	3.2	MUSID
B 49	13 1/2	343	1/8	3.2	MOBUL	B 53	20	508	1/8	3.2	MUSOY
B 50	13 1/2	343	1/8	3.2	MUSAW	B 54	22	559	1/8	3.2	MUSUG
B 51	15	381	1/8	3.2	MUSEK	B 55	24	610	1/8	3.2	MURYL

"Semhi" Flexible-Back Metal Cutting Band Saws

Huthier Bros. "Semhi" band saws (Fig. 7) are hardened on the tooth edge only, for cutting metal. The distance between each tooth is .071 in. (1.80 mm.).

These saws are furnished in coils, or cut to length and brazed, as desired. They are especially tempered for the material which they are intended to cut.

WHEN ORDERING—State material for which the saws are to be used.

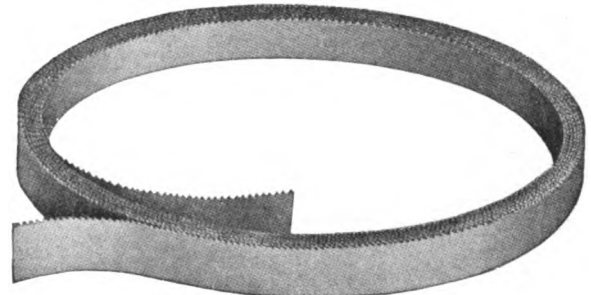


FIG. 7. METAL CUTTING BAND SAWS

TABLE IV. FLEXIBLE-BACK METAL CUTTING BAND SAWS

No.	Width		Thickness		Code Word
	in.	mm.	in.	mm.	
B 56	1 1/2	38	.022	0.56	MELAN
B 57	1 1/2	38	.022	0.56	MELER
B 58	1 1/2	38	.025	0.64	MEDAR
B 59	1 1/2	38	.032	0.81	MEDUC
B 60	1 1/2	38	.032	0.81	MEKAB
B 61	1 1/2	38	.034	0.86	MEKOP

Special Saw Grinding Machine

This machine (Fig. 8) is especially designed for sharpening the Huthier Bros. patent inserted tooth milling saws. The grinder combines speed with ease of operation.

OPERATION—The saw is placed on table as shown in Fig. 8, and the table adjusted so that the grinding wheel will swing to the bottom of tooth. The grinder head can then

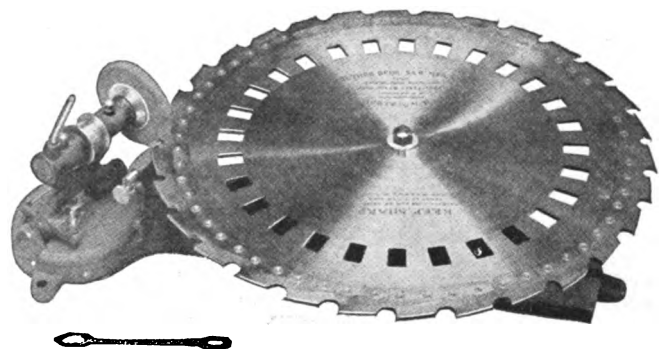


FIG. 8. SPECIAL GRINDING MACHINE

be set so that teeth or hooks may be ground at any desired angle. An adjustable stop is set squarely against the back of tooth that is being ground and the stop on grinder head is set so that grinder will not grind into body of saw. The front of tooth only, will then be ground.